

LAND APPLICATION SITE

RICHARD T HITE, Jr. SITE

LURTH 1-13

LUNENBURG COUNTY

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 8-30-13 between RICHARD T. HITE, Jr. referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in LUNENBURG Co, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
TM 46(A), P 19	48(A), P 56		
TM 47(A), P 13			
TM 60(A), P 28			
TM 60(A), P 28A			
TM 60(A), P 31			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Landowner - Printed Name, Title

Signature

Mailing Address & Phone Number

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Permittee - Authorized Representative
Printed Name

Signature

Mailing Address

PO Box 562 Remington, Virginia 22734

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: LUNEBURG Co.

Landowner: RICHARD T. HITE, JR.

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

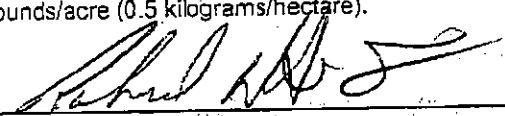
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days.
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).


Landowner's Signature

Date

Same
Farm Operator Signature

Mailing Address & Phone Number

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 8-30-13 between MINDY HITE referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in LUXEBURG CO, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
TM 60(A), P 28			
TM 60(A), P 28A			
TM 40(A), P 56			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
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The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Landowner - Printed Name, Title Mindy Hite Signature Mindy Hite Mailing Address & Phone Number 9331 South Hill Rd. (434) 676-4600
Kenbridge Va 23944

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

[Signature]
 Permittee - Authorized Representative
 Printed Name

Signature

PO Box 562 Remington, Virginia 22734

Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc
Landowner: MINDY HITE

County or City: LUNEBURG CO.

Landowner Site Management Requirements:

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 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
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Mindy J. Hite
Landowner's Signature

8-30-13
Date

Farm Operator Signature

Mailing Address & Phone Number

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 8-31-13 between RICHARD T. HITE^(SR) referred to here as "Landowner", and Recyc Systems, Inc., referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

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Table 1: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
TM 60 (A), P 31			
TM 47 (4), P 13			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.
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Richard T. Hite

Richard T. Hite

745 E 5th Ave Kentucky Va

Landowner - Printed Name, Title

Signature

Mailing Address & Phone Number

434-676-8569

23947

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

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☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

[Signature]

Permittee - Authorized Representative
Printed Name

Signature

PO Box 562 Remington, Virginia 22734

Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: LUNEBURG Co.

Landowner: RICHARD T. HITE (SR)

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Richard T. Hite / Consign 12/1/2003/Dec 13
Landowner's Signature Date

Farm Operator Signature

Mailing Address & Phone Number

Landowner Coordination Form

Richard T. Hite, Jr. Site

Lunenburg County

Owner List

Richard T. Hite, Jr.

TM46(A),P19

9331 South Hill Road

TM47(4),P13

Kenbridge, VA 23944

TM60(A),P28,28A,31

434-294-2503

TM 48(A) . P 56

Mindy Hite

TM60(A),P28,28A

9331 South Hill Road

TM 48(A) . P 56

Kenbridge VA, 23944

434-294-2503

Richard T. Hite, Sr.

TM60(A),P31

745 East 5th Avenue

TM 47 (4) , P 13

Kenbridge, VA 23944

434-676-8569

FARM DATA SHEET

SITE NAME: Richar Richard T. Hite, Jr.		COUNTY: Lunenburg	
OWNER: Se See Attached		OPERATOR: Richard T, Hite, Jr.	
OWNER'S ADDRESS		OPERATOR'S ADDRESS 9331 South Hill Road Kembridge, VA 23944	
OWNER'S TELEPHONE		OPERATOR'S TELEPHONE 434-294-2503	
GENERAL FARM TYPE: Soybean, wheat Soybean, wheat		CELLPHONE	
# CATTLE: non none		EMAIL:	
LAGOON or SLURRY: none		LATITUDE/ 1-7 36° 54' 48" LONGITUDE 78° 05' 25"	
TOPO QUAD: we** Kenbridge East, Kenbridge West * ^		8-13 36° 55' 43" 78° 09' 58"	
COMMENTS			
*Elna B. Wallace is now deceased. Richard T. Hite and Richard T. Hite Jr. inherited her share of the land *			
Farm Operator aware of tobacco restriction. Plans to rotate fields into hay.			

8

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
LURTH 1	15.0	-	-	-	-	CM10	TM60(A),P28	T1618 Field 3
LURTH 2	3.9	-	-	-	-	CM10	TM60(A),P28	T1618 Field 8
LURTH 3	28.7	10B(Jan-Apr)	-	-	-	CM10	TM60(A),P28	T1618 Fields 1,6
LURTH 4	12.6	-	-	-	-	CM10	TM60(A),P28	T1618 Field 2
LURTH 5	19.9	-	-	-	-	CM10	TM60(A),P31	T268 Fields 1,2
LURTH 6	10.1	-	-	-	-	CM10	TM60(A),P31	T268 Field 1
LURTH 7	2.4	-	-	-	-	CM10	TM60(A),P31	T268 Field 3
LURTH 8	6.6	24B(Nov-Apr)	-	-	-	CM10	TM47(4),P13	T331 Field 10
LURTH 9	6.4	24B(Nov-Apr)	-	-	-	CM10	TM47(4),P13	T331 Field 9
LURTH 10	10.9	-	-	-	-	CM10	TM47(4),P13	T331 Field 4
LURTH 11	27.7	24B(Nov-Apr)	-	-	-	CM10	TM46(A),P19	T616 Field 3
LURTH 12	2.7	-	-	-	-	CM10	TM46(A),P19	T616 Field 2
LURTH 13	10.0	-	-	-	-	CM10	TM46(A),P19	T616 Field 1
TOTAL ACRES IN SITE	156.9							

Report Number: 13-197-0502

Account Number: 70594



www.aaleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
RICHARD T HITE/LURTH
LUNENBURG CO

Submitted By: CHARLES CARLO
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 07/16/2013

Date Of Analysis: 07/17/2013

Date Of Report: 07/18/2013

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rat	Rate	Reserve ppm	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1	14136	1.5	L	76	150		VH		106	H	65	H	372	M			6.3	6.90	0.3	3.0
2	14137	2.9	M	101	39		M		69	L	121	H	562	M			5.7	6.82	1.1	5.1
3	14138	1.7	L	79	83		H		43	L	77	H	486	H			6.5	6.90	0.3	3.4
4	14139	1.4	L	73	105		H		81	M	89	H	364	M			6.0	6.88	0.5	3.3
5	14140	2.5	L	94	69		H		80	M	79	H	462	M			5.7	6.85	0.8	4.0

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS mg/cm Rate	Cl ppm Rate	Al ppm
1	9.1	18.1	62.0		10.5										
2	3.5	19.8	55.1		20.9										
3	3.2	18.9	71.5		7.5										
4	6.3	22.5	55.2		15.3										
5	5.1	16.5	57.8		21.2										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGroary*

Paucic McGroary

Report Number: 13-197-0502

Account Number: 70594



www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:

RICHARD T HITE/LURTH
LUNENBURG CO

Submitted By: CHARLES CARLO

Farm ID:

Date Received: 07/16/2013

Date Of Report: 07/18/2013

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
1	Adjust pH to 6.8	0	1.0				15						
2	Adjust pH to 6.8	0	1.5				0						
3	Adjust pH to 6.8	0	1.0				3						
4	Adjust pH to 6.8	0	1.3				0						
5	Adjust pH to 6.8	0	1.5				1						

Comments:

Sample(s) : 3,5 Crop: Adjust pH to 6.8

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

Report Number: 13-197-0502

Account Number: 70594



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A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
RICHARD T HITE/LURTH
LUNENBURG CO

Submitted By: CHARLES CARLO
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 07/16/2013

Date Of Analysis: 07/17/2013

Date Of Report: 07/18/2013

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rat	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g
6	14141	1.7	L	80	113	H			48	L	44	M	210	L			5.1	6.84	0.9	2.5
7	14142	1.1	L	70	122	VH			28	VL	25	M	138	L			4.9	6.85	0.8	1.7
8	14143	1.8	L	81	52	H			80	M	82	H	393	M			5.6	6.84	0.9	3.7
9	14144	2.2	L	88	41	M			74	M	102	H	488	M			5.8	6.85	0.8	4.3
10	14146	2.0	L	86	122	VH			64	L	72	H	339	M			5.9	6.88	0.5	3.0

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm	S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	SS ms/cm	Cl ppm	Al ppm
6	4.9	14.7	42.0		37.1										
7	4.2	12.3	40.6		44.7										
8	5.5	18.5	53.1		23.4										
9	4.4	19.8	56.7		19.0										
10	5.5	20.0	56.5		17.0										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGeary*

Paucic McGeary

Report Number: 13-197-0502

Account Number: 70594



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CULPEPER VA 22701

Grower:
RICHARD T HITE/LURTH
LUNENBURG CO

Submitted By: CHARLES CARLO
Farm ID:

Date Received: 07/16/2013

Date Of Report: 07/18/2013

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
6	Adjust pH to 6.8	0	1.8				36						
7	Adjust pH to 6.8	0	1.8				55						
8	Adjust pH to 6.8	0	1.8				0						
9	Adjust pH to 6.8	0	1.5				0						
10	Adjust pH to 6.8	0	1.5				8						

Comments:

Sample(s) : 7 Crop: Adjust pH to 6.8

Apply dolomitic lime to raise pH and improve the magnesium level.

Sample(s) : 7,10 Crop: Adjust pH to 6.8

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

Report Number: 13-197-0502

Account Number: 70594



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CULPEPER VA 22701

Grower:
RICHARD T HITE/LURTH
LUNENBURG CO

Submitted By: CHARLES CARLO
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):

Mehlich 3

Date Received: 07/16/2013

Date Of Analysis: 07/17/2013

Date Of Report: 07/18/2013

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus			Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
11	14147	2.2	L	89	127		VH	80	M	63	M	326	L			5.2	6.81	1.2	3.6
12	14148	2.9	M	100	63		H	85	L	107	H	542	M			5.4	6.78	1.5	5.3
13	14149	2.5	L	91	85		H	150	H	126	H	727	M			6.0	6.84	0.9	6.0

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ ppm	S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	SS ms/cm	Cl ppm	Al ppm
11	5.7	14.6	45.3		34.0										
12	4.1	16.8	51.1		28.5										
13	6.4	17.5	60.6		15.4										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGroary*

Paucic McGroary

Report Number: 13-197-0502

Account Number: 70594



www.aeastern.com

A&L Eastern Laboratories

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RICHARD T HITE/LURTH
LUNENBURG CO

Submitted By: CHARLES CARLO
Farm ID:

Date Received: 07/16/2013

Date Of Report: 07/18/2013

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
11	Adjust pH to 6.8	0	1.8				17						
12	Adjust pH to 6.8	0	2.0				0						
13	Adjust pH to 6.8	0	1.3				0						

Comments:

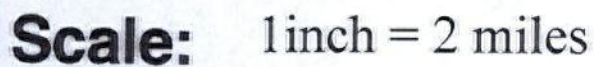
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Paucic McGroary

MAPS

(Biosolids Land Application)



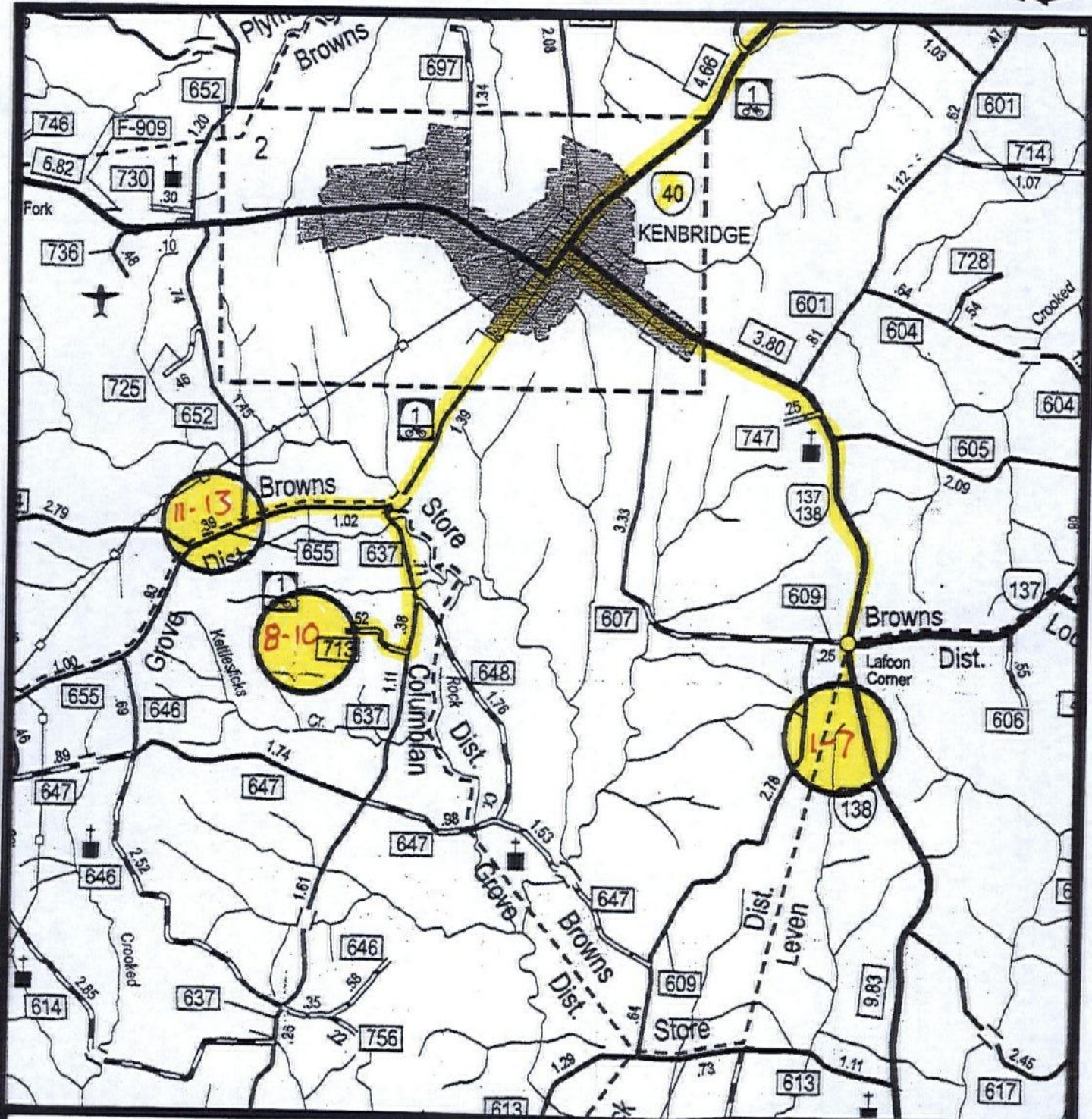
LURTH 1-13

VICINITY MAP



Inc.

(Biosolids Land Application)



Scale: 1 inch = 1 mile

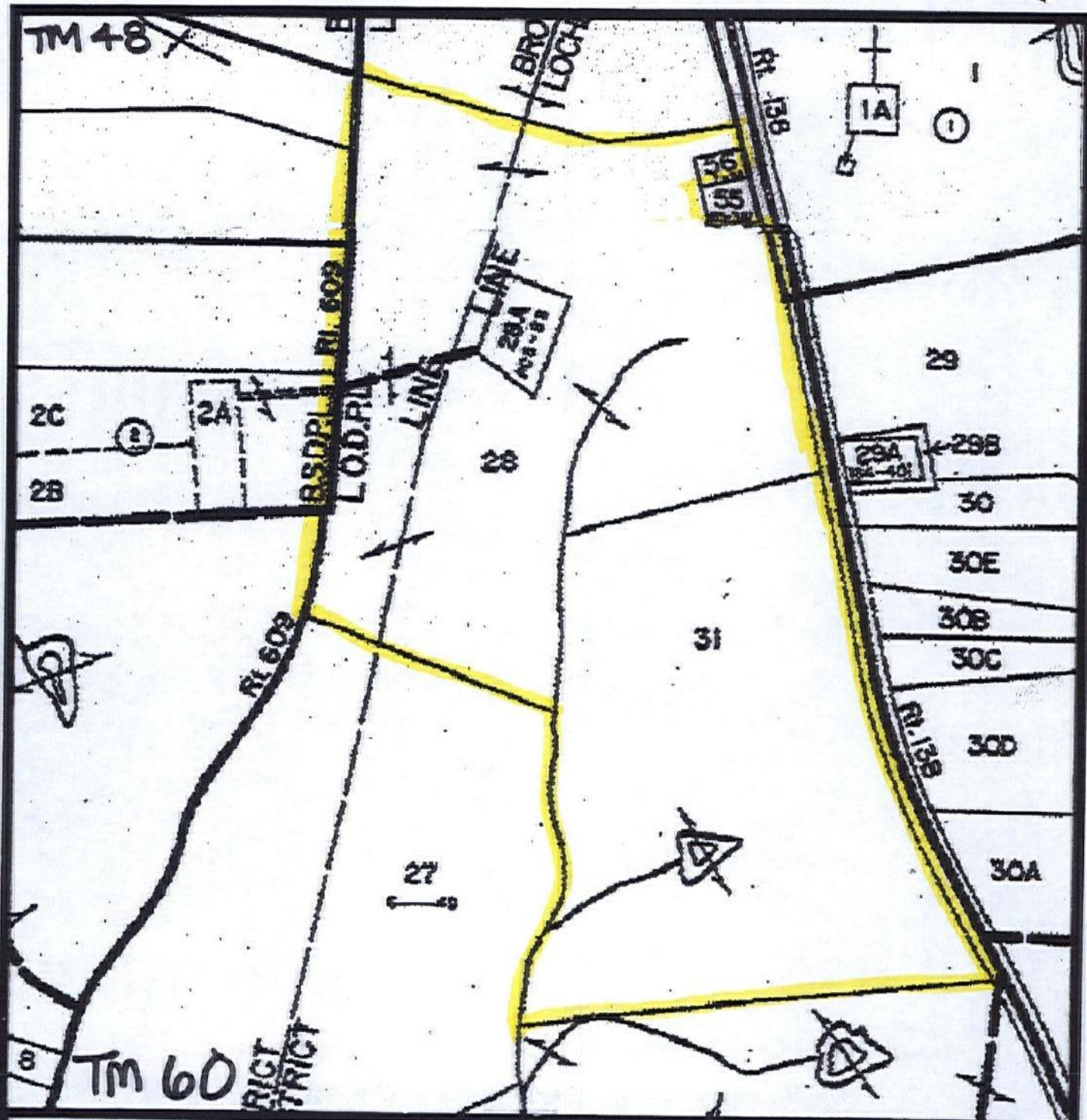
LURTH 1-13

VICINITY MAP



Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

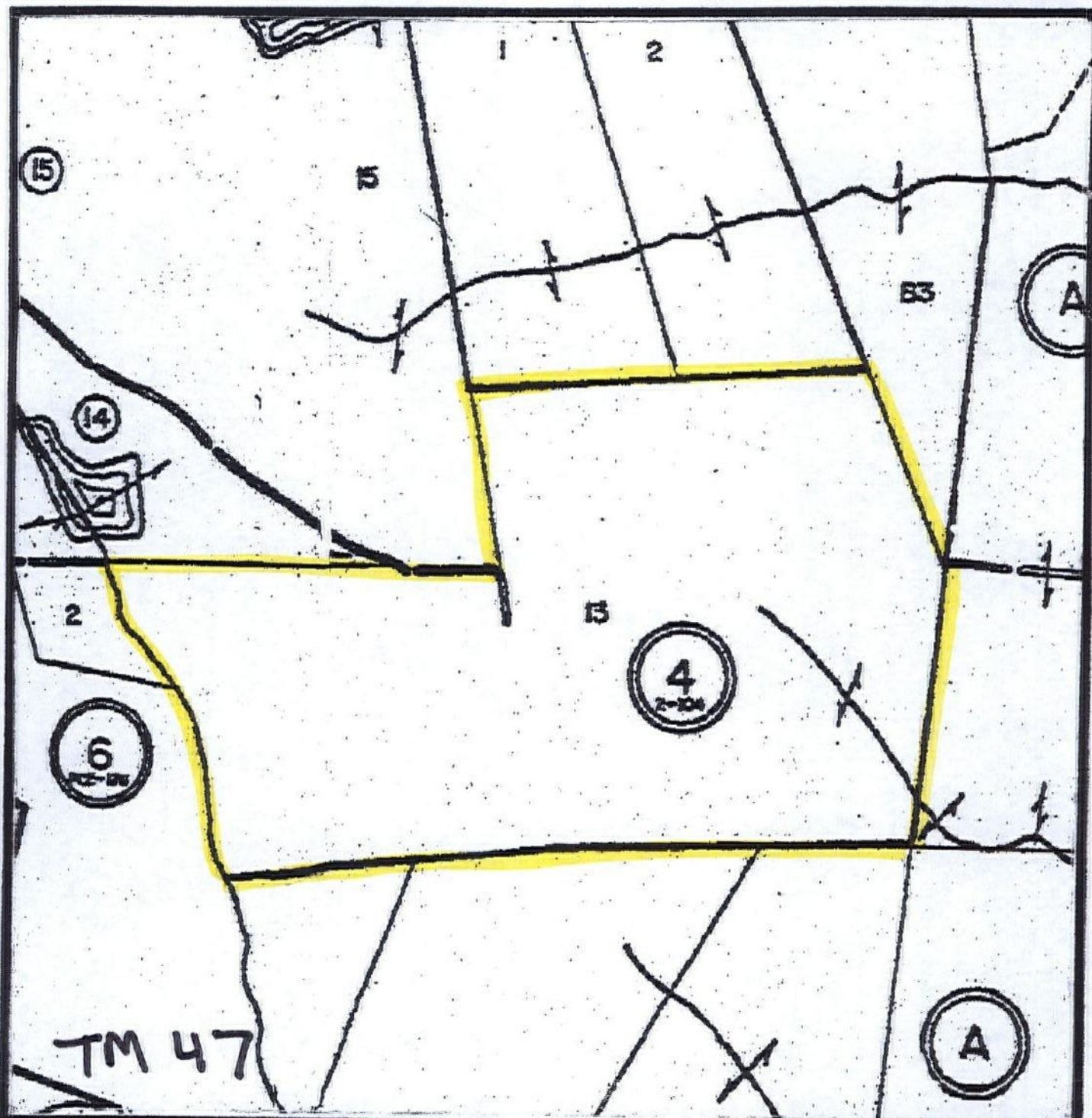
LURTH 1-7

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

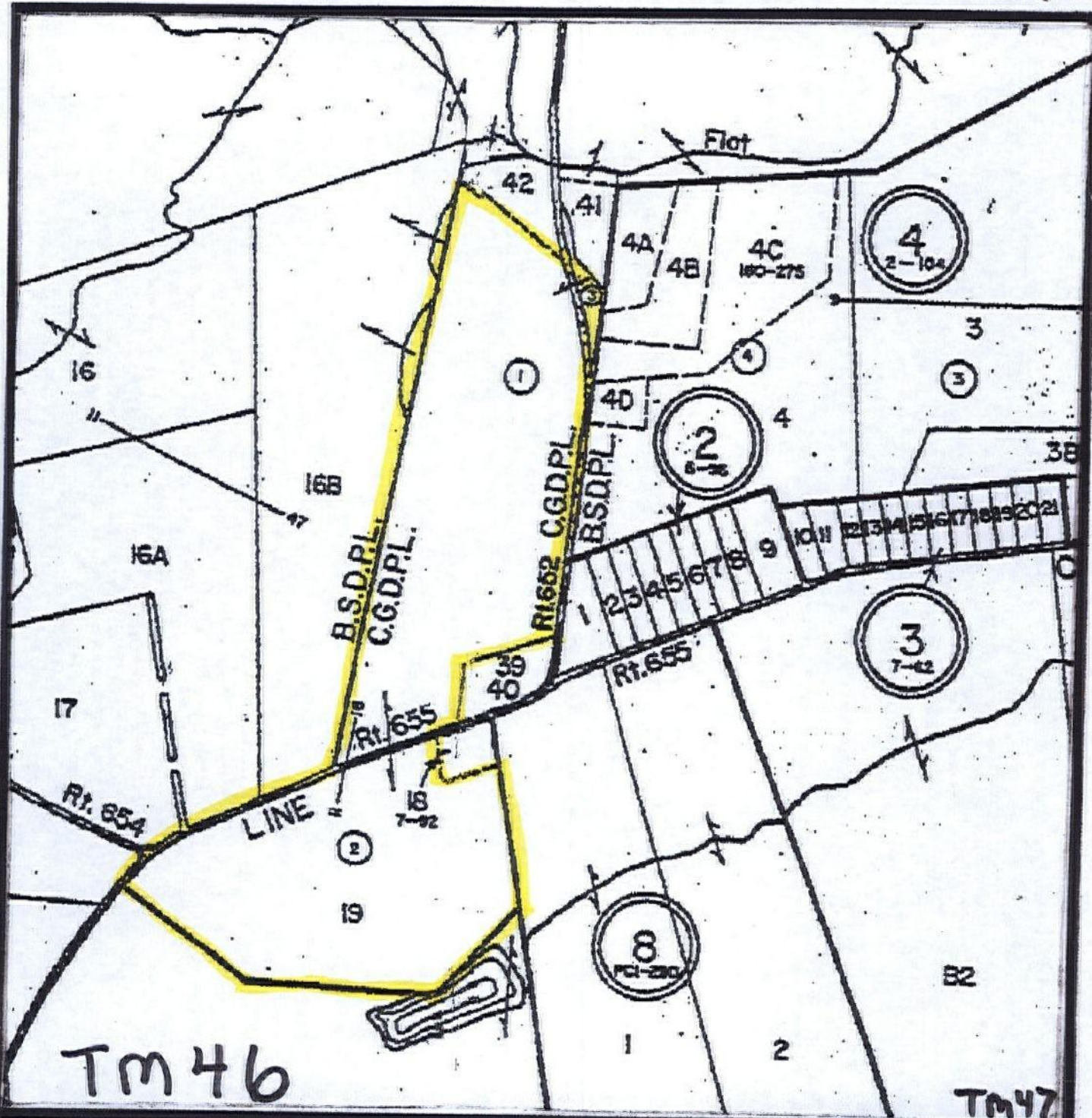
LURTH 8-10

TAX MAP

N
A

Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

LURTH 11-13

TAX MAP



ADJOINING LANDOWNERS

Richard T. Hite, Jr.

LUNENBURG COUNTY

Tax Map	Parcel #	#	Owner Name(s)
46(A)	16A		James P. Puleo
	16B		Berry Puleo
	17		James C. & V. Puleo
	18		Andrew Green
	21		Thomas Flinnigan
	32		Ruth Hendrick
	38		Johnny Long
46(4)	5		Robert Crawley
	14		Dixie Lee Harris
	15		Bernice Bishop
47(A)	41		Jane Gee
47(2)	1		Luther Drummond
47(4)	4A		Jane Gee
	4B		Jane Gee
	4C		Jane Gee
	4D		Leon Wilkerson
	15		Bernice Bishop
47(8)	1		Wiley P. or Carol F. Wallace
	2		Will R. or Gail S. Wallace
48(A)	47		Baird Timberlands, LLC
	54		Juanita Robbins
	55		Mabel Lafoon

ADJOINING LANDOWNERS

Richard T. Hite, Jr.

LUNENBURG COUNTY

Tax Map	Parcel #	Owner Name(s)
48(4)	1	Afton Grove Associates, LLC
	2	Woodrow T. Conner
48(5)	1	Richard T., Sr. or Carolyn Hite
58(A)	66A	Johnny K. Long
59(A)	1A	Stephen P. or Wendy A. Lindberg
	3	Dorothy S. Martin
60(A)	6	C.L. Barnes, Jr,
	27	Abigail Barnes
	29	Thomas A. Hart
	29A	Claretta Harris
	29B	Claretta Harris
	30	Thomas A. Hart
	30A	Joseph W. or Dallas B. Abernathy
	30B	Jay Johnson or Mary C. Irby
	30C	Carl Dexter Hancock
	30D	Kevin L. Abernathy
	30E	Anthony B. Wallace
	32	Ruby Oneil Hawkins
60(1)	2A	William A. Austin
	2C	Willard E. or Donna C. Anderson



Scale: 1 inch = 660 feet

LURTH 1-4

SOIL MAP





Scale: 1 inch = 660 feet

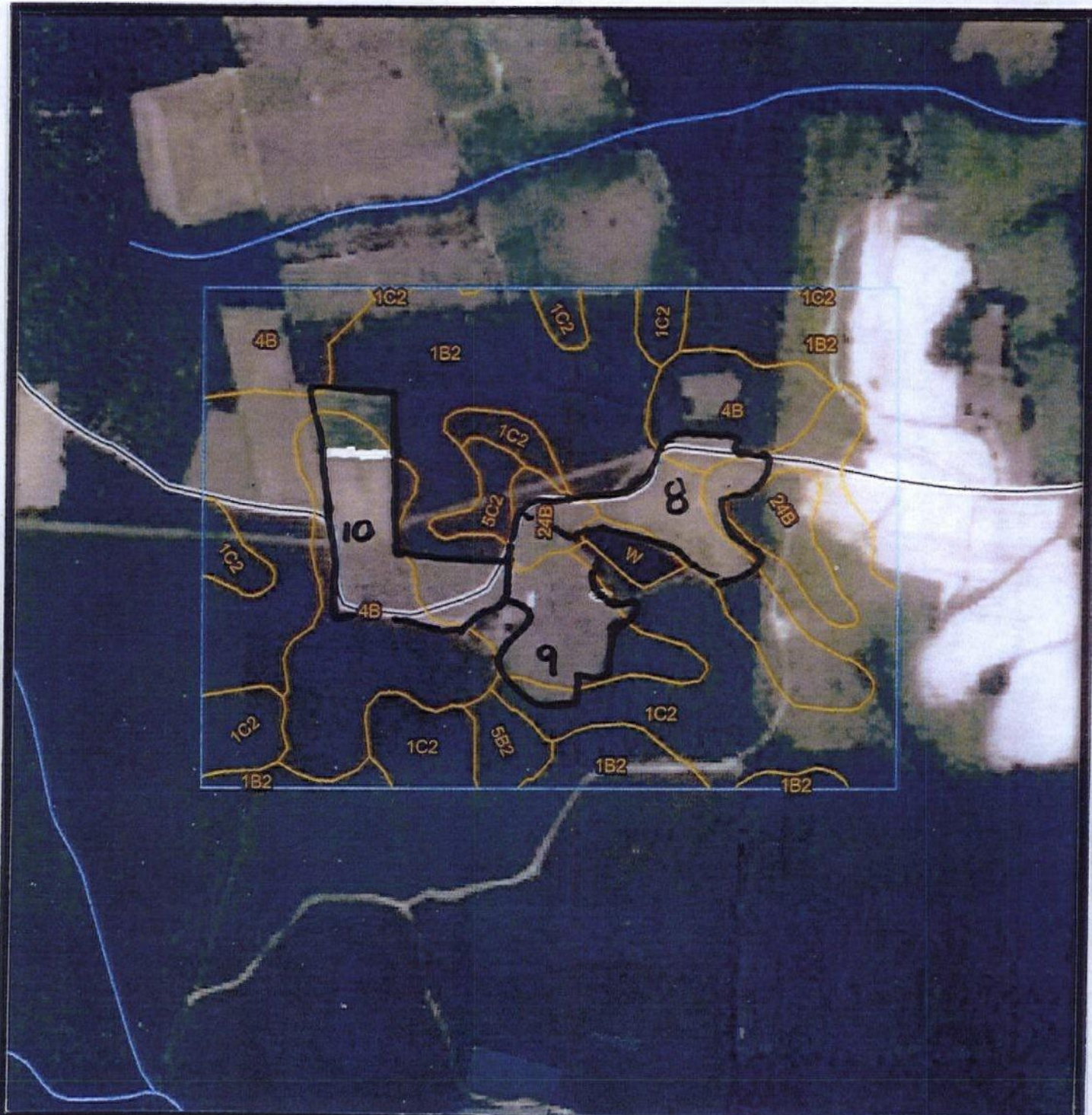
LURTH 5-7

SOIL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)

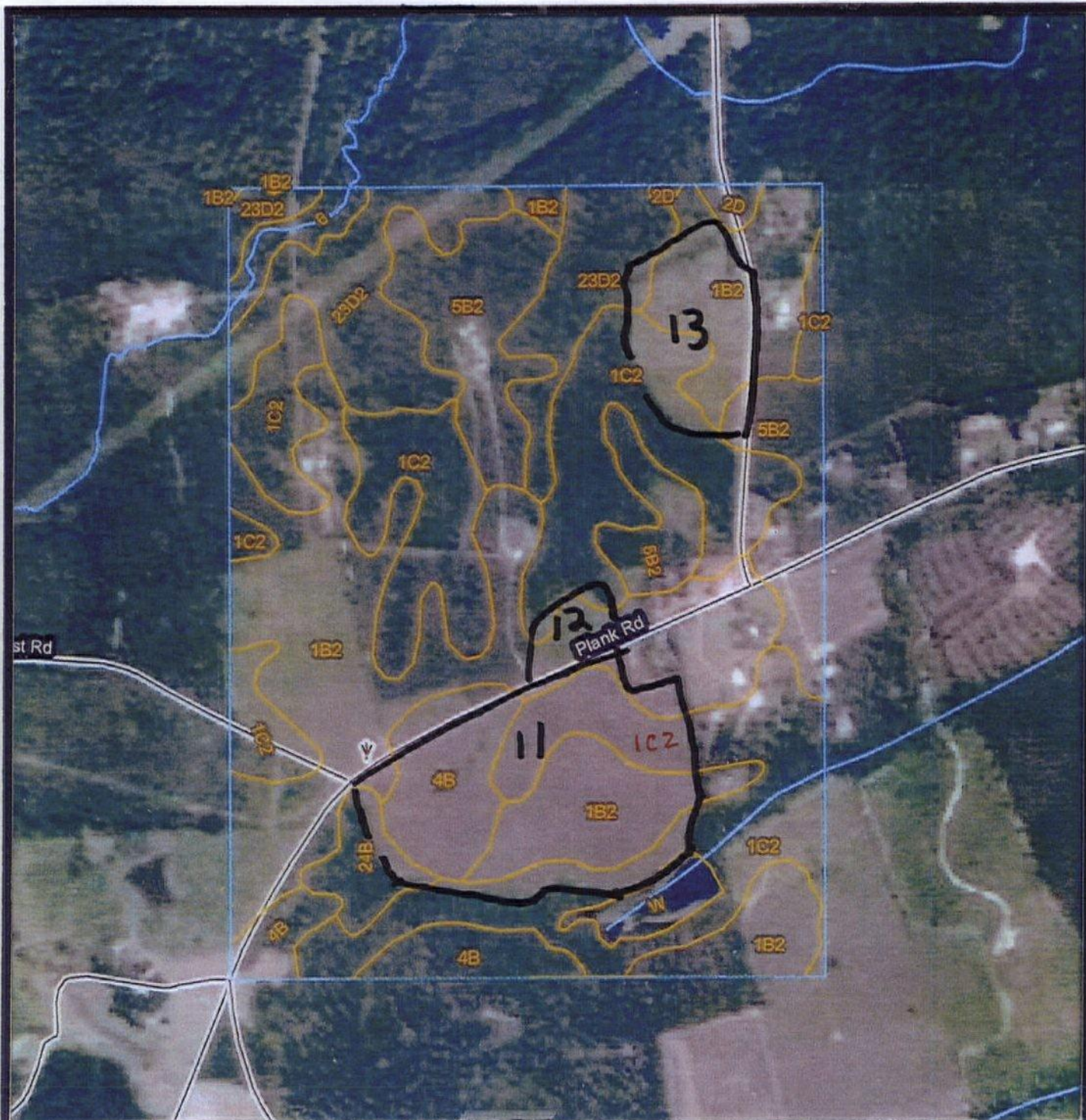


Scale: 1 inch = 660 feet

LURTH 8-10

SOIL MAP





Scale: 1 inch = 660 feet

LURTH 11-13

SOIL MAP





T 1618

Scale: 1 inch = 660 feet

LURTH 1-4

AERIAL MAP





T 268

Scale: 1 inch = 660 feet

LURTH 5-7

AERIAL MAP





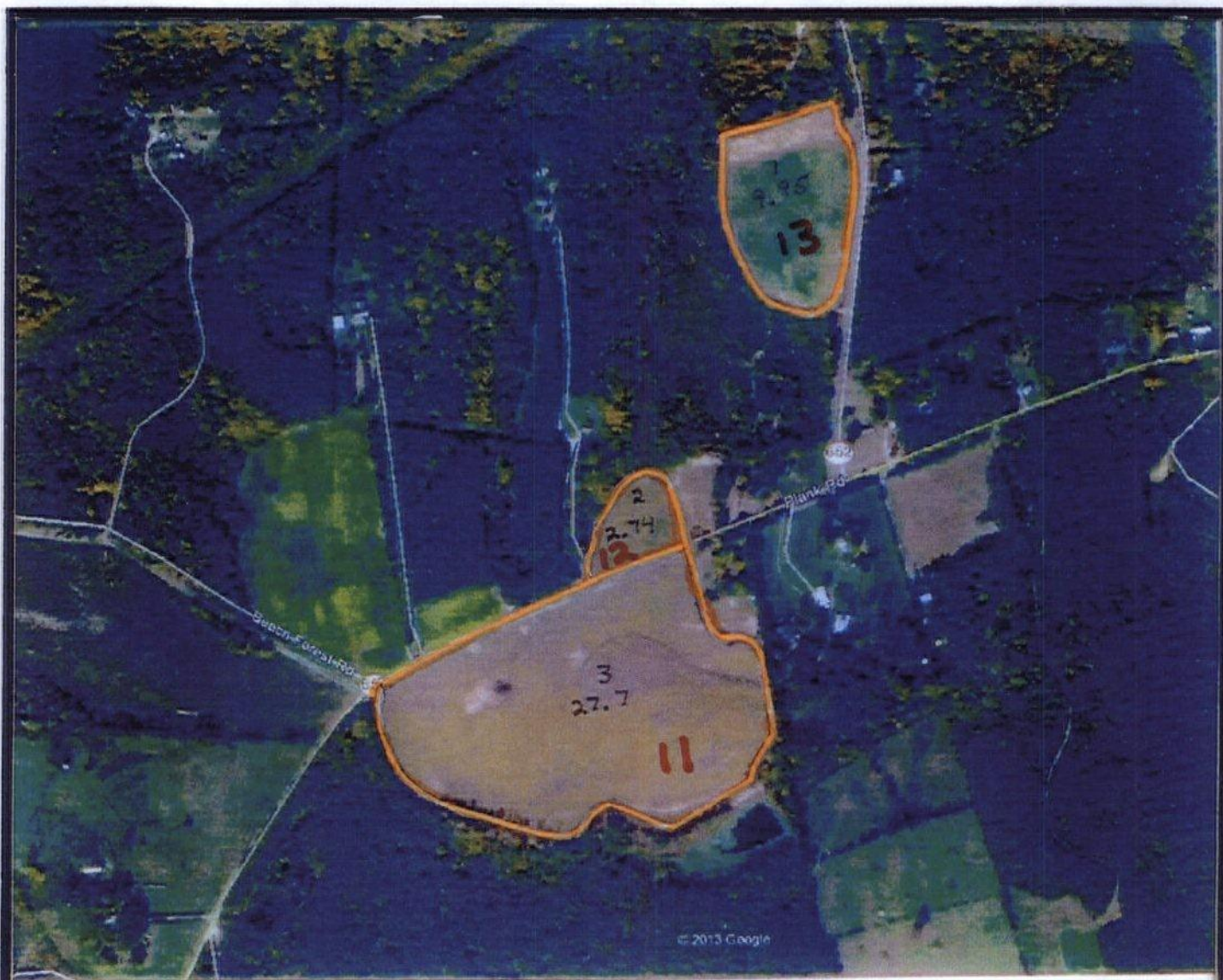
T 331

Scale: 1 inch = 660 feet

LURTH 8-10

AERIAL MAP





T 616

Scale: 1 inch = 660 feet

LURTH 11-13

AERIAL MAP



Legend for Site Plan



House and Well/Public Building



Well/Spring



Perennial Streams & Surface



Wet Spot



Intermittent Stream/Drainage



Trees and Woods



Private Drive



Rock/Rocky Area



Sinkhole



Severely Eroded Spot



State Road



Field Boundary



Fence



Property Line



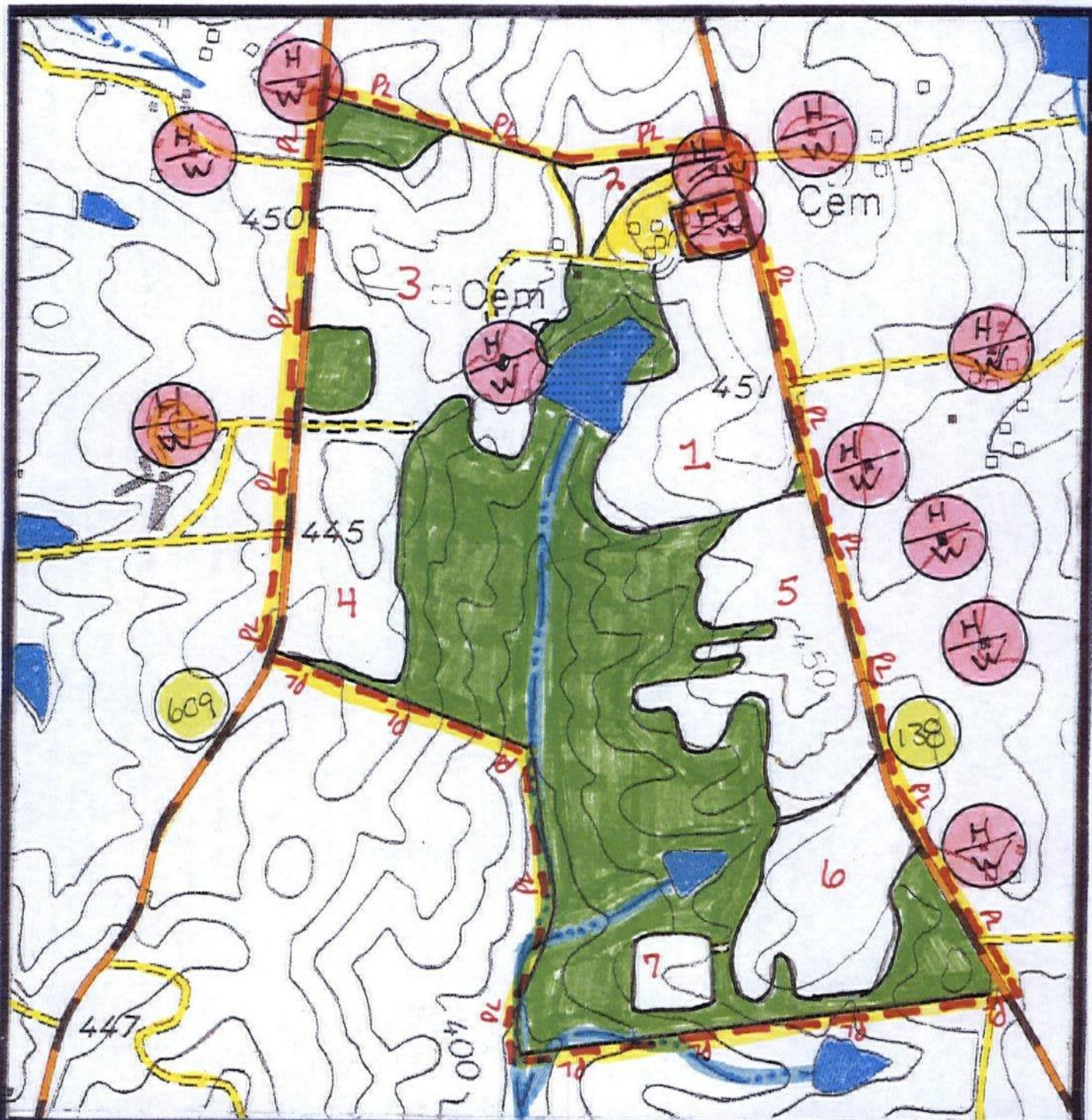
Slope



Frequent Flooding

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

LURTH 1-7

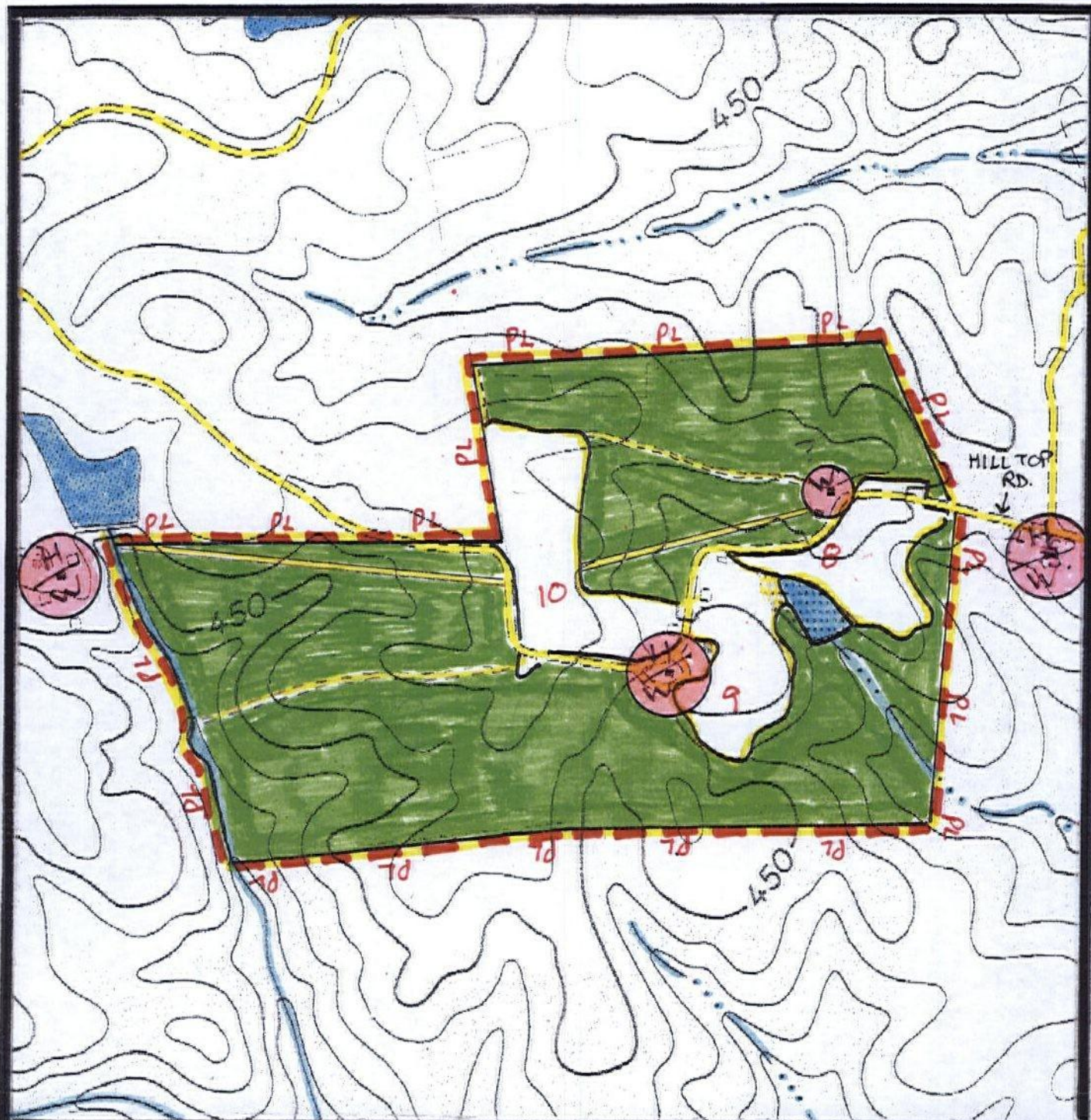
SITE PLAN



Recyc SystemsTM

Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

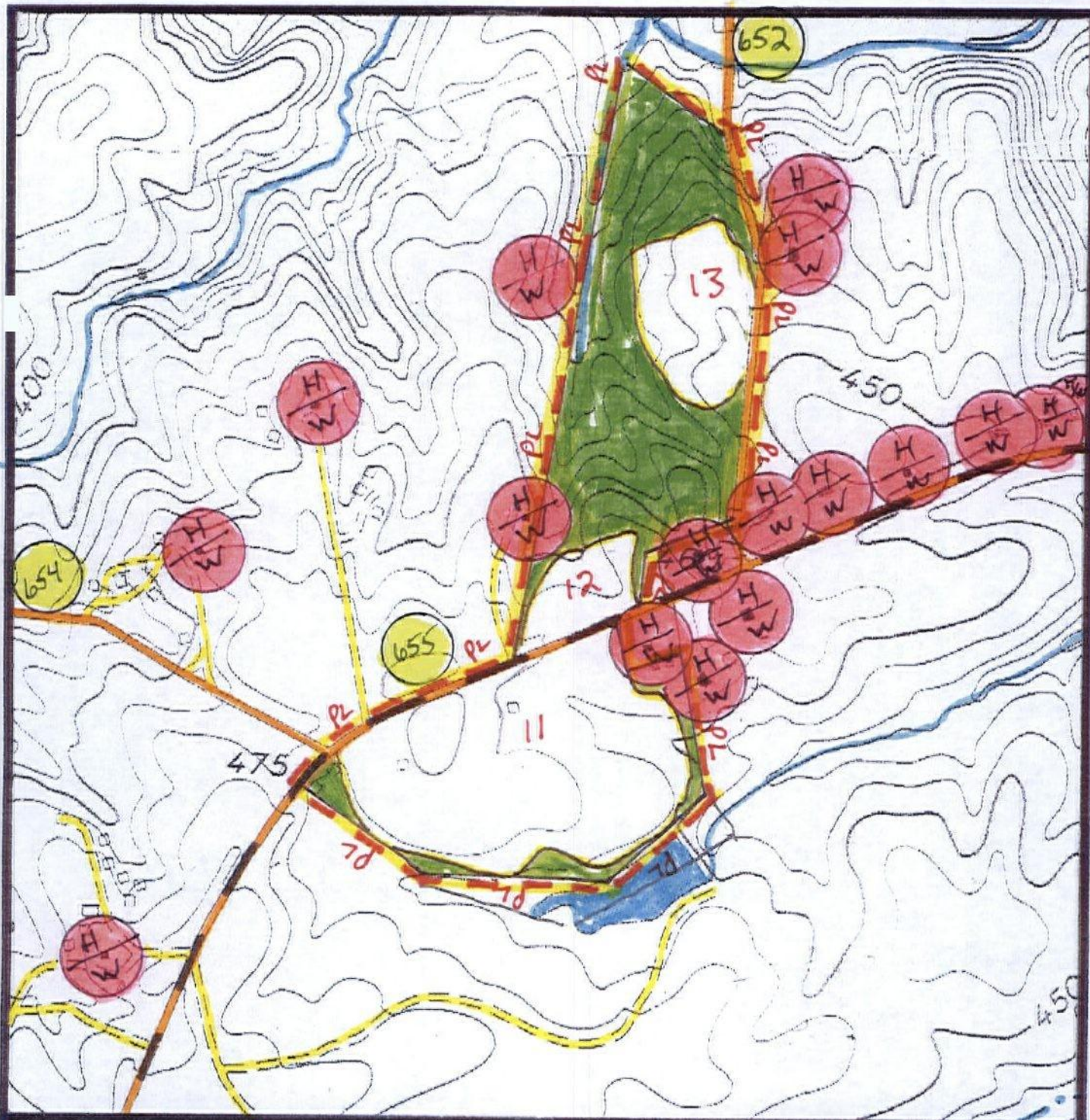
LURTH 8-10

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

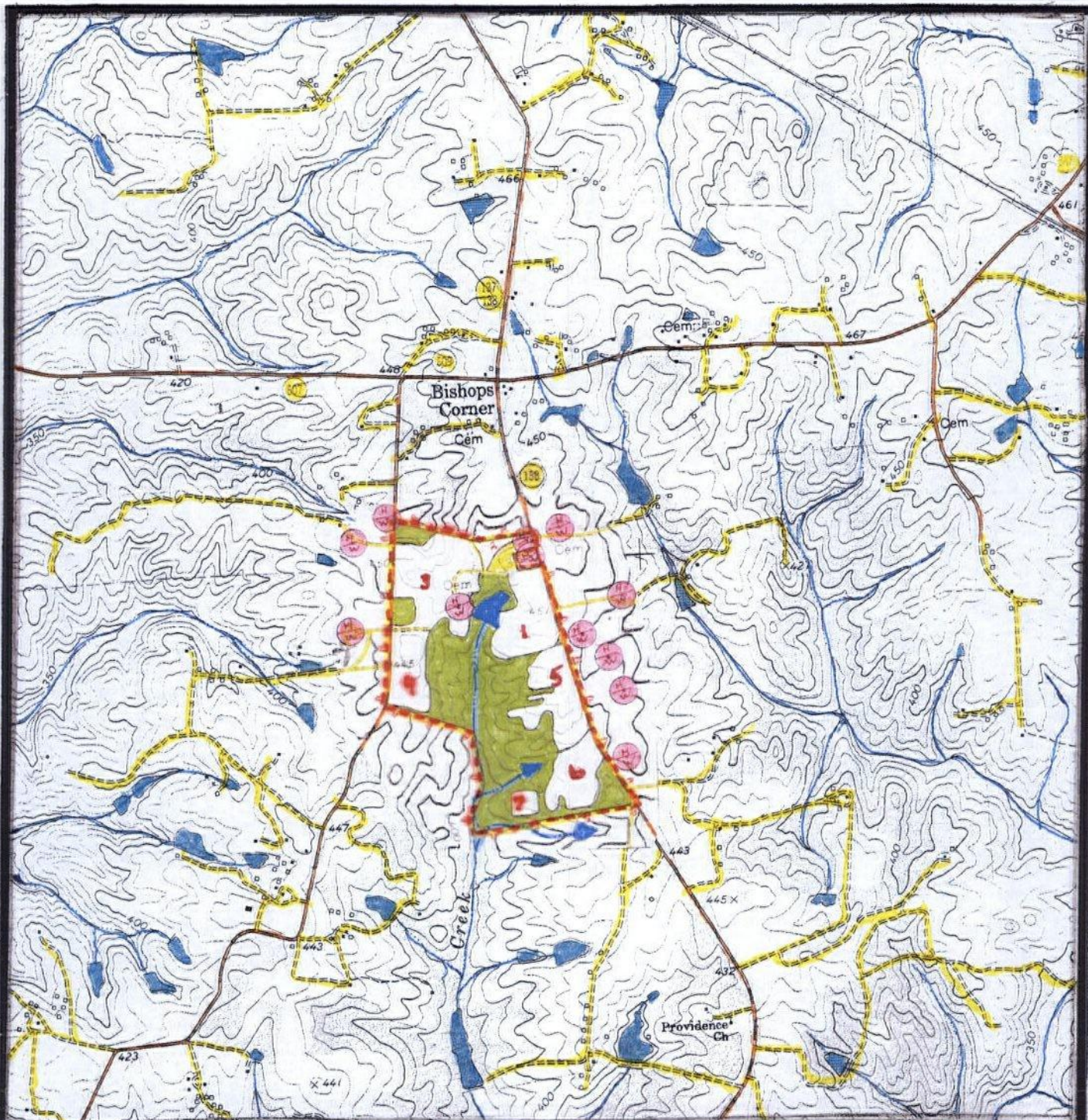
LURTH 11-13

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 2,000 feet

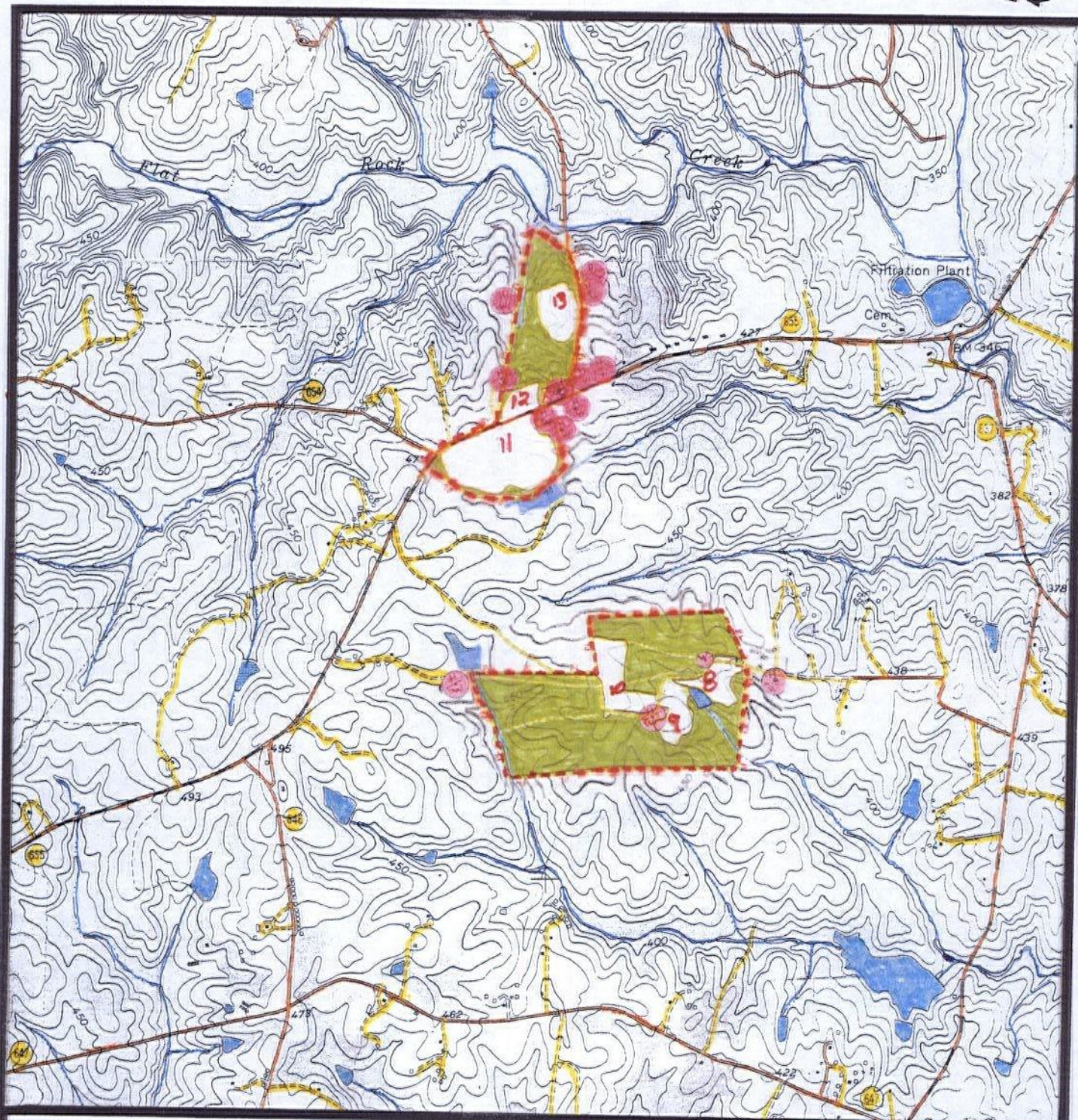
LURTH 1-7

TOPOGRAPHIC MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 2,000 feet

LURTH 8-13

TOPOGRAPHIC MAP

